

**STRUCTURAL STEEL:** 

of local building codes.

2. All Steel to be 50 ksi.

4. Anchor bolts shall be ASTM A36 rods.

1. All Structural Steel work shall conform to the American Institute

Erection of Structural Steel for Buildings" and to the requirements

3. Bolts shall conform to ASTM A325 (ASTM A307 at connection to

wood members), 3/4" minimum. All bolts shall conform to ASTM A

325, Type 1. Nuts shall be ASTM A325 overtapped, Grade DH.

5. All welding and details shall be as recommended by the AISC

All welds shall develop the full strength of the members to be

return. All welds shall be E70xx, with Fy = 70 ksi.

welded, minimum size of fillet welds shall be 3/16", with a 1/2"

and conform to the requirements of the American Welding Society.

of Steel Construction "Specifications for Design Fabrication and

order to transfer the loads to the foundation or other framing. Full

to provide full bearing through framing.

and rated for around contact.

than 8 feet.

depth blocking shall be used in the floor framing under woods posts.

5. Do not notch the top or bottom of joists in the middle third of the

Posts below headers shall be (2) 2x6's, if not specified on the drawing

7. Copper based (w/o copper chromate arsenate) preservative pressure

treat all exterior wood exposed to moisture (u.n.o.), after fabrication

including blocking and handrail pieces. Each piece shall be stamped

8. Provide solid blocking @ 1/2 span for all floor joist spans greater

6. Headers, if not specified on the drawing, shall be (2) 2x12 min...

Posts below LVL beams shall be (3) 2x6's, if not specified on the

span. End notches shall not exceed 1/6 of the joist depth.

was the basis of this design.

the Engineer before proceeding.

deems it necessary.

2. Sidewalk Live Load = 250 psf (8,000 lb. Concentrated)

1. The Contractor shall remove and relocate, as required utilities

crossing excavations and new foundation work. The Contractor

shall provide temporary support for all utility lines adjacent to

the foundation work. Where utilities cannot be relocated, notify

excavations by sheet piling, bracing, shoring, etc., as required by

field conditions. Excavation and shoring shall be inspected by a

Protection against slides and cave-ins shall be increased if he

2. Protect streets, sidewalks and existing foundations during

competent registered engineer employed by the Contractor.

DEMOLITION, SHORING AND UNDERPINNING WORK:

opportunity to install all appertunances required by these trades

Contractor shall verify all dimensions before setting screeds and

10. Provide clearance from faces of concrete to reinforcement as

follows: bottom of footings and outside face of fdn. walls: 3", all

accomodate installation of embedded items, unless approved by the

11. All horizontal surfaces intended for foot traffic shall receive a

12. Contractor is to submit concrete mix design to Engineer, for

approval, prior to Commencement of Work, Dependant on time of

strength and slump testing of 4000 psi concrete and required 7%

13. Contractor is to hire a certified testing agency to perform

year of concrete placement, provide concrete retarder or accelerator

other concrete 2". Do not cut or displace reinforcing steel to

non-slip broom finish.

air entrainment.

100 Cummings Center, Suite 222G Beverly, MA 01915 Tel: 978-927-5111 Fax: 978-927-5103

10/18/11

Date

General Revision

Revisions

ROBERT

GRIFFIN CIVIL #36686

10.18.11

Griffin

Engineering

Group, LLC

Description

City of Newton Sidewalk Repair Union St. Newton, Ma.

Sidewalk Support System Plans, Sects. Dets. & Notes

**S1** 

(Epoxy) Reinf. 400 (Pounds) (Plain) W.W.F. 200 Sq. Ft. 24 Feet of P.T. Wood Parallam 7x11.25 Parallam Br 3" Dia. (3 Req'd) Steel Lally Col. w/Cap|Length = 8 Foot Eac & Base Pl 65 Lineal Feet Curb

3/4" Dia. Hole

50 Lineal Feet

30 Pounds

2 lbs./cu. yd. of Slab

Epoxy

Grout

Scale: As Shown File Name: p\N\SR

**Date:** 10/7/11